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	CIA IMAGERY ANALYSI	

CHINESE POWER PLANTS

KUANGTUNG PROVINCE

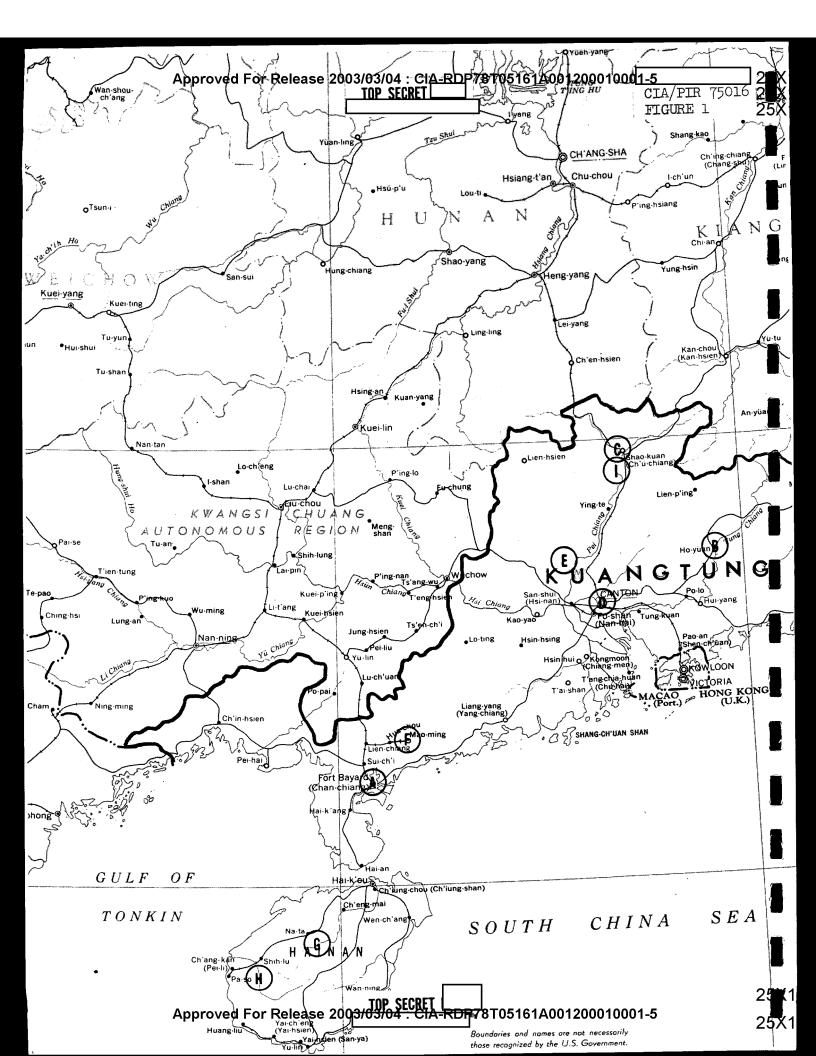
- (A) Chan-chiang Thermal Power Plant
- (B) Ho-yuan Hydro Power Plant (Hsin-feng Chiang)
- (C) Ju-yuan Hydro Power Plant (Nan Shui)
- (D) Kuang-chou Thermal Power Plant (Hsi-tsun)
- (E) Liang-kou Hydro Power Plant (Liu-chi Ho UG)
- (F) Mao-ming Thermal Power Plant
- (G) Tan-hsien Hydro Power Plant (Sung-tao)
- (H) Tung-fang Hydro Power Plant (Lokoshing)
- (I) Wu-shih Thermal Power Plant

REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

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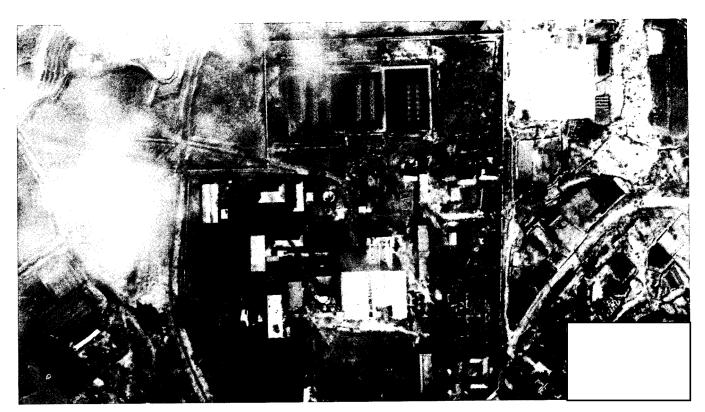


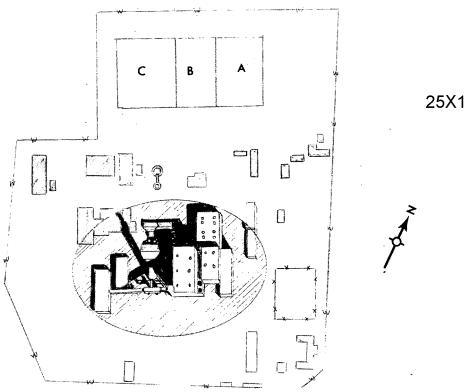
	CIA IMAGERY ANALYSIS DIVISION	CLA/PIR 75016
	CHAN-CHIANG THERMAL POWER PLANT BE NUMBER - NPIC NUMBER - 1-J]
Chan-chiang Ai operated, rail transformer, a	-chiang Thermal Power Plant is located arfield at 21 12 30N - 110 21 50E. The L-served, and includes a substation common integrated control house, coal handlaree spray ponds, and numerous support/	facility is coal- taining one probable ing and processing
to free-standi leads were vis capacity of th	erhouse is equipped with two widely spaning stack A, indicating two boiler unitable, making impossible any evaluation he plant. The generator hall is divided contains at least two generator units.	s. No generator cable of the generator
	enstruction occurred during the period int was observed in continuous operation subsequent coverage was	

25X1

CIA/PIR 75016 25X FIGURE 2

CHAN -CHIANG THERMAL POWER PLANT





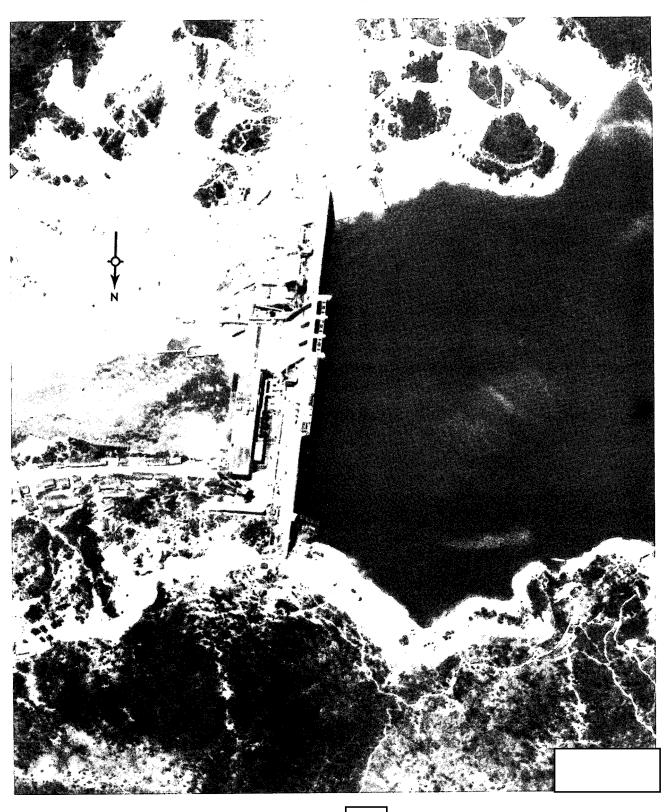
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(1	Approved For Release 2008/05/04 PFTA-RDP78T05161A001200010001-5	
	TOT SECKET	25X1
	CIA/PIR 75016	
	HO-YUAN HYDRO POWER PLANT (HSIN-FENG CHIANG) BE NUMBER - NPIC NUMBER - 74 25X1	
	The Ho-yuan Hydro Power Plant, located 2.0 nm southwest of Ho-yuan on the Hsiao Chiang (River) at 23 43 40N - 114 39 02E, is of the concrete, consolidated type with an integrated spillway.	
(1	The powerhouse is complete except for the installation of transformers behind the southern section of the building. Three transformers are visible adjacent to the center powerhouse section, and two or three others are probably installed under the shelter behind the northern end (turbulence has been observed from this end of the building on several occasions). Some construction apparently remains to be accomplished at the southern end of the dam; temporary buildings, scarring, and a crane were evident in but little progress, if any, has been noted since that time.	
	A large substation containing three transformers is located approximate 1.0 nm northeast of the dam. A series of transmission towers connect the substation with the power plant site; however, lines can only be traced three-fourths of the distance from the substation to the power plant.	ly
X1	No significant construction occurred during the period	25>
		25X1

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CIA/PIR 75016 FIGURE 3 25X1

HO-YUAN HYDRO POWER PLANT (HSIN-FENG CHIANG)



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25X1	CIA IMAGERY ANALYSIS DIVISION CIA/PIR 75016 HO-YUAN HYDRO POWER PLANT (HSIN-FENG CHIANG)			
25X1				
	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION		
	Possible construction activity at the south end of the dam.	No turbulence observed.		
	No apparent change	Obliquity precludes analysis.		
	25X1 None 25X1	One, possibly two areas of turbule from the plant.		
	None	Reservoir level is down. One possible area of turbulence from the plant.		
	None	One area of turbulence from the plant.		

CIA/PIR 75016 25X1

25X1

HO-YUAN HYDRO POWER PLANT (HSIN-FENG CHIANG)

	Two areas of turbulence from the plant. Discharge from two spill
	way outlets also noted.
	Two areas of turbulence from the plant. Light discharge from all three spillway outlets.
	No turbulence observed; however, poor quality photography may hav precluded detection of activity.
precluded analysis.	Clouds precluded analysis.
	25X1
	orecluded analysis.

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JU-YUAN HYDRO POWER PLANT (NAN SHUI)
BE NUMBER - NPIC NUMBER - 141

25X1

25X1

The Ju-yuan Hydro Power Plant (Nan Shui) is located on the Nan Shui (River) approximately 19 nm west of Chu-chiang (Shao-kuan) and is still under construction. The facility is of the separated type and presently consists of a probably completed earthen dam at 24 47 20N - 113 13 00E, and scarring for a turbo-generator hall at 24 47 10N - 113 15 30E.

The site of the powerhouse is enclosed by a cofferdam; however, the area within the cofferdam appears to be flooded, suggesting that the site is inactive. There has been no apparent change in the status of the plant

25X1

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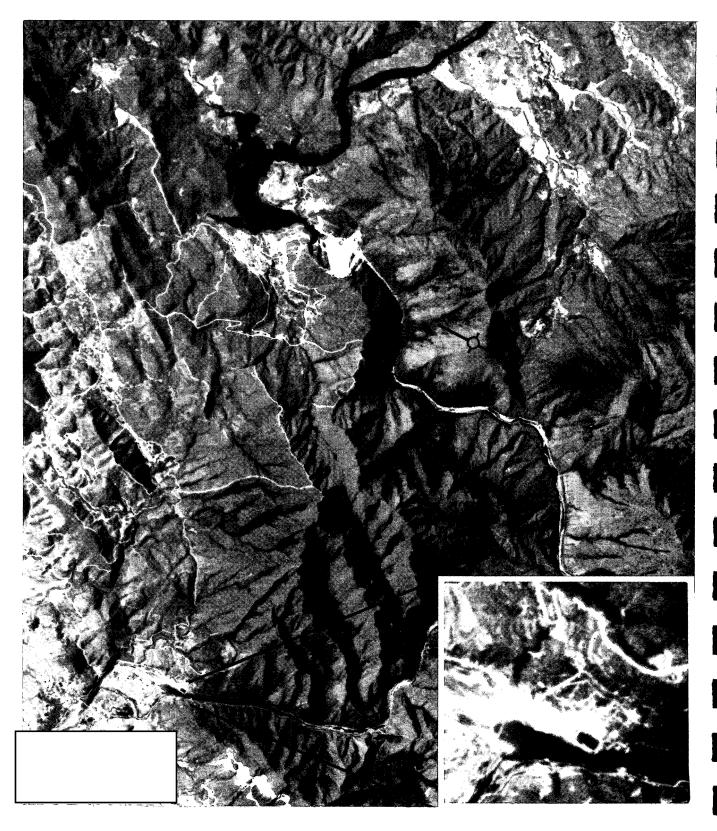
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CIA/PIR 75016 FIGURE 25X1

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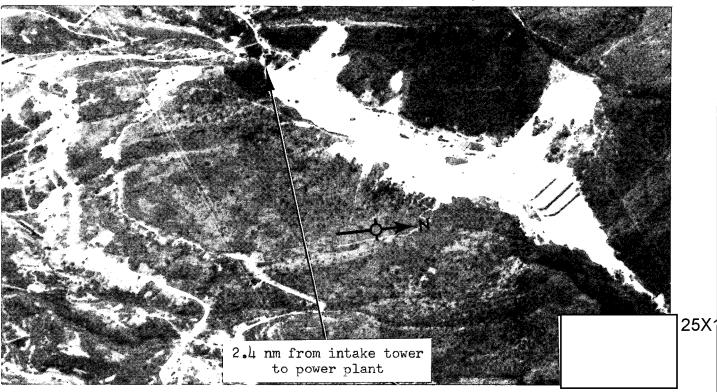
JU-YUAN HYDRO POWER PLANT (NAN-SHUI)

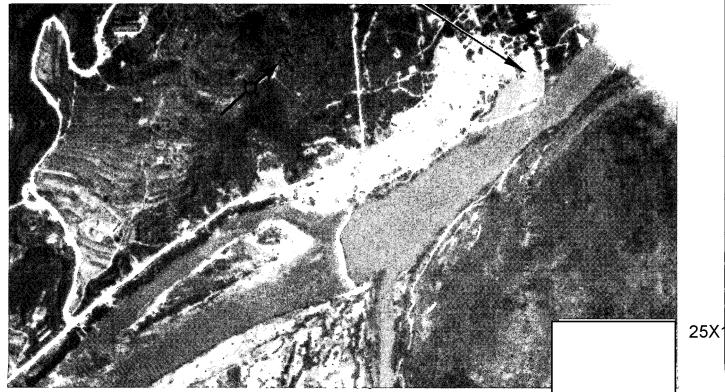


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25X1 CLA/PIR 75016 25X1 FIGURE 5

JU-YUAN HYDRO POWER PLANT (NAN-SHUI)





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	CIA IMAGERY ANALYSIS DIVISION	CIA/PIR 75016
5X1	KUANG-CHOU THERMAL POWER PLANT (HSI BE NUMBER - NPIC NUMBER - 2-Z7	-TSUN)
Kuang-chou the Chu-chi operated, n with three	-chou Thermal Power Plant is located in th 1.0 nm north of the Kuang-chou Railroad a iang (River) at 23 08 30N - 113 13 20E. T rail and water served and includes a contr or four transformers, extensive coal stor facilities and unidentified support/storag	nd Highway Bridge over he facility is coal- ol house, substation age, processing and
in size. In and appears equipped with boiler unit northern go	oilerhouse consists of two sections which The northern, older section has two short is s to contain two boiler units; the souther ith two larger roof-stacks and doubtlessly ts. One set of generator cable leads is v enerator hall and the substation; three ot t the southern section of the generator ha	roof-stacks (C and D) n section is taller, is contains two larger isible between the her sets of cables are
There	has been no construction during the perio	đ

25X

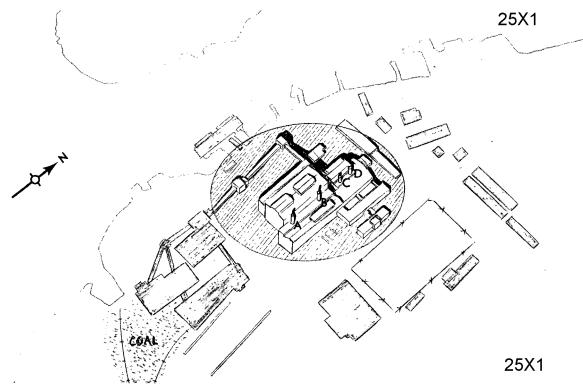
25X

CIA/PIR 75016 25X1 FIGURE 6

25X1

KUANG-CHOU THERMAL POWER PLANT (HSI-TSUN)





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CIA IMAGERY ANALYSIS DIVISION

CIA/PIR 75016

25X1

KUANG-CHOU THERMAL POWER PLANT (HSI-TSUN)

CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
None	Moderate smoke from stacks A and B. Light smoke from stacks C and D.
None	Moderate smoke from stack A. Light smoke from stack C.
None	Heavy smoke from stack B. Light smoke from stacks A and D. Possible wisp of smoke from stack C.
None	Heavy smoke from stack B precludes analysis of stacks C and D. Moderasmoke from stack A.
None	Light smoke from stacks A, B, C, and D.

		CIA IMAGERY ANALYSIS [NOISIVIG	CIA/PIR 75016	
X1 ·	KUANG-CHOU THERMAL POWER PLANT (HSI-TSUN)				
PHOTO DATA	CONSTRUCT	TION ACTIVITY	LEVEI	OF PRODUCTION	
	None			e from stacks A ar se from stack C.	
	ŕ				

-8-

	CIA IMAGERY ANALYSIS DIVISION CLA/PIR 75016
25X1	LIANG-KOU HYDRO POWER PLANT (LIU-CHI HO UG) BE NUMBER - 77 NPIC NUMBER - 77
east of l	ing-kou Hydro Power Plant (Liu-chi Ho UG) is located 1.8 nm north- Liang-kou on the Yang-tsun Chiang (River). The facility consists crete-arch dam with two separated water intake facilities at N - 113 46 05E and a separated turbo-generator station at 23 44 40N - 15E.
opportuni The above formers a	e turbo-generator hall is apparently underground, affording no aity for an assessment of the number of turbo-generators installed. The ground facilities include a substation with two large transand two possible smaller transformers, a buried surge tank, a administration building, and several small support buildings.
of the mi	turbulence was observed at the power plant site or dam on any dissions covering the facility. The only apparent change in plant es occurred at the western end of the substation, where two possible mers were added.

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25X1	CIA IMAGERY ANALYSIS DIVISION	CIA/PIR 75016
25/1	MAO-MING THERMAL POWER PLANT	
	NPIC NUMBER - 57	
	g Thermal Power Plant is located with:	
	14.5 nm south of Mao-ming at 21 40 401 rail-served, coal-operated, and include	
with one transfo	rmer, coal-unloading building, coal-co	
iacilities, and	several support/storage buildings.	
The powerhouse the state of the	use has been in an arrested state of on and presently consist	
one boiler-gener	ator unit. The boilerhouse is equipped	ed with one set of
dust-catchers ar	d is connected by one set of two-duct. The placement of stack A is such the	flues to free-
a total of four	boiler units the size of that already	installed. One
	cable leads connects the generator had not turn linked to the single transformed	
	<u> </u>	
	parent construction during the period f the erection of a coal-unloading but	
	_	

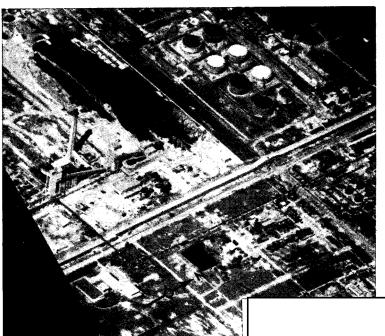
CIA/PIR-75016 FIGURE 9

25X1

25X1

MAO-MING THERMAL POWER PLANT





25X1

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For Release 2003/03/24:CRETR DP78T05161A001200010001-5

25X1

25X1

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR 75016

MAO-MING THERMAL POWER PLANT

CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
Powerhouse appears to be one-fourth of planned size; however, no construction activity is apparent.	Clouds preclude analysis.
No apparent activity.	No smoke apparent.
None (one set of generator cables is visible between generator hall and control house.)	No smoke apparent.
None	Clouds preclude analysis.
None	Obliquity/clouds preclude analysis.
None	No smoke apparent.
-11-	

Approved For Release 200 ዓ/ ይታ0 \$ ይሮ የድሞሀ P78T05161A001200010 20 የፉታ 25X1 CIA IMAGERY ANALYSIS DIVISION CIA/PIR 75016 MAO-MING THERMAL POWER PLANT 25X1 25X1 LEVEL OF PRODUCTION CONSTRUCTION ACTIVITY Uprights for a coal-unloading No smoke apparent. building are evident. Light smoke from stack A. Coal-unloading building appears completed. Moderate smoke from stack A. No apparent change. -12-Approved For Release 200303/04-CDF-RDP78T05161A001200010001-5

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	CIA IMAGERY ANALYSIS	CIA/PIR	75016

TAN-HSIEN HYDRO POWER PLANT (SUNG-TAO)

NPIC NUMBER - 58-A

25X′

25X²

25X1

A search of northern Hainan revealed one possible candidate for the Tan-hsien Hydro Power Plant (Sung-tao). The facility is located on the Hsin-an Chiang (River) at 19 20 00N - 109 40 30E and consists of a large earthen dam and scarring for a possible turbo-generator hall. There is no indication that any construction activity is currently underway. No other candidates for the subject plant were observed.

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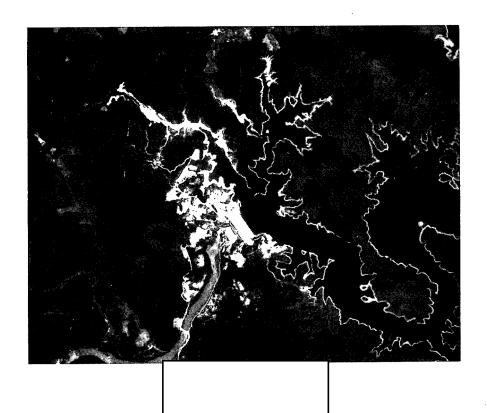
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CIA/PIR 75016 FIGURE 10

25X1

25X1

TAN-HSIEN HYDRO POWER PLANT (SUNG-TAO)



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	CIA IMAGERY ANALYSIS DIVISION	CIA/PIR 75016	25X
25X1			

TUNG-FANG HYDRO POWER PLANT (LOKOSHING)

NPIC NUMBER - 18

Tung-fang Hydro Power Plant (Lokoshing) is located on the south bank of the Chang Ho (River) 1 nm northeast of Lokoshing Dam at coordinates 19 01 55N - 108 59 00E. The powerhouse is serviced by a single penstock which in turn is fed by water from a canal linking with the dam. A substation is located adjacent to the powerhouse and contains a probable small control building, two large transformers, and two possible small transformers.

No new construction or turbulence from the powerhouse was evident

Several instances of turbulence were noted from a small spillway east of the powerhouse.

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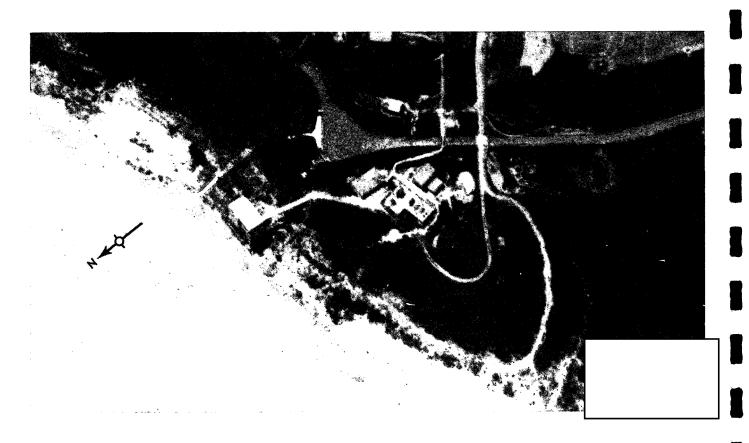
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CIA/PIR 75016 FIGURE 11

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TUNG-FANG HYDRO POWER PLANT (LOKOSHING)



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	CIA IMAGERY ANALYSIS DIVISION	CIA/PIR 75016
5X1	WU-SHIH THERMAL POWER PLANT NPIC NUMBER - 100-B	
west of Wu- 24 35 05N - consists of	a-shih Thermal Power Plant is located approx- shih on the eastern bank of the Pei Chiang - 113 34 27E. The plant is rail-served, coaf a substation with control house, probable ive coal handling and processing facilities.	(River) at coordinates al-operated and maintenance building,
connected b boiler unit	oilerhouse is equipped with two dust-catcher by two single flues to a masonry stack (A) i ts are probably operable. Only one set of t ever, is visible between the generator hall	indicating that two three-cable power
	onstruction during the period during the period during the period during the period durings in the total during the period during the period during during the period during duri	he coal-handling

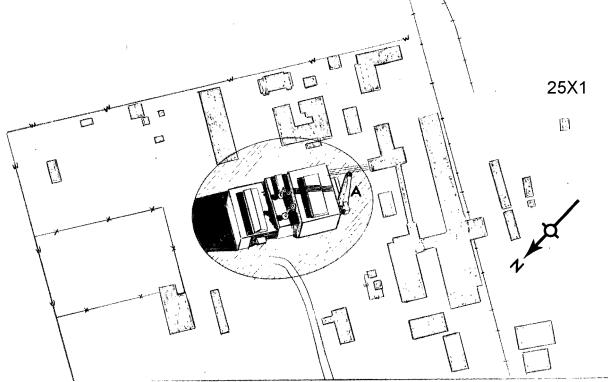
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WU-SHIH THERMAL POWER PLANT





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CIA IMAGERY ANALYSIS DIVISION

25X1

CIA/PIR 75016

25X1

WU-SHIH THERMAL POWER PLANT

CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
None	Moderate smoke from stack A.
	Clouds preclude analysis.
An addition to several coal unloading buildings has been completed. A possible water tank has been constructed on the hill east of the plant. The northern end of the generator hall is open.	Light smoke from stack A.
None	Light smoke from stack A.
None	Light smoke from stack A.
·	

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